

I claim:

1. A method for delivering radio programs and related schedule information using a mobile device, the method comprising:

retrieving schedule information pertaining to radio programs;

5 formatting the schedule information into a program guide comprising first and second axes and a plurality of elements, the first axis corresponding to a plurality of radio stations, the second axis corresponding to a plurality of time slots, each element corresponding to a radio program; and

10 displaying the program guide on a screen integrated with the mobile device.

2. The method of claim 1, wherein the radio program schedule information is retrieved from a remote database.

15 3. The method of claim 2, wherein the program schedule information is retrieved by a wireless method.

4. The method of claim 1, wherein the program schedule information is contained in a cellular transmission received by the mobile device.

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5. The method of claim 1, wherein the elements of the program guide are irregularly shaped.

6. The method of claim 1, wherein the program guide is displayed on the screen in response to a user activating a specifically-designated button on the mobile device.

5 7. The method of claim 1, wherein at least one element of the program guide corresponds to a radio program to be broadcast in the future.

8. The method of claim 7, further comprising:  
receiving a user selection of an element corresponding to a radio program  
10 to be broadcast in the future;  
scheduling a task to receive the selected radio program at a time indicated by the program guide; and  
in response to the selected radio program being received, caching the radio program.

15 9. The method of claim 7, wherein the received radio programs are cached at a location selected from the group consisting of the mobile device, a communication network, and a wireless transmission apparatus connected to the communication network.

20 10. The method of claim 8, further comprising:  
visually indicating within the program guide that a task has been scheduled for receiving the selected radio program.

25 11. The method of claim 8, further comprising:

playing the cached radio program using the mobile device in response to a user command.

12. The method of claim 1, wherein at least one element corresponds  
5 to a radio program broadcast at an earlier time.

13. The method of claim 11, further comprising:  
selectively receiving a plurality of radio programs; and  
caching the received radio programs.

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14. The method of claim 13, wherein the received radio programs are  
cached at a location selected from the group consisting of the mobile device, a  
communication network, and a wireless transmission apparatus connected to the  
communication network.

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15. The method of claim 13, wherein the plurality of radio programs is  
selectively received in response to specified user preferences.

16. The method of claim 13, wherein the plurality of radio programs are  
20 selectively received in response to historical user selections.

17. The method of claim 13, wherein the plurality of radio programs  
comprise all of the programming broadcast by a particular radio station for a  
period of time.

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18. The method of claim 13, further comprising:  
receiving a user selection of an element corresponding to a previously-  
broadcast and cached radio program; and  
playing the cached radio program using the mobile device.

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19. The method of claim 1, wherein at least one element corresponds  
to a radio program being currently broadcast over the Internet.

20. The method of claim 19, further comprising:  
10 receiving a user selection of an element corresponding to a radio program  
being currently broadcast;  
receiving the radio program via the Internet; and  
playing the radio program using the mobile device.

21. The method of claim 1, wherein at least one element corresponds  
15 to a radio program being currently broadcast in a wireless analog transmission.

22. The method of claim 21, further comprising:  
receiving a user selection of an element corresponding to a radio program  
20 being currently broadcast;  
receiving the radio program via an analog wireless receiver of the mobile  
device; and  
playing the radio program using the mobile device.

23. A system for delivering radio programs and related schedule information using a mobile device, the system comprising:  
a display screen integrated with the mobile device;  
a schedule retrieval component configured to retrieve schedule information  
5 pertaining to radio programs;  
a formatting component, coupled to the schedule retrieval component, configured to format the schedule information into a program guide comprising first and second axes and a plurality of elements, the first axis corresponding to a plurality of radio stations, the second axis corresponding to a plurality of time  
10 slots, each element corresponding to a radio program; and  
a display component, coupled to the formatting component and the display screen, configured to show the program guide on the display screen.

24. The system of claim 23, wherein the radio program schedule  
15 information is retrieved from a remote database.

25. The system of claim 24, wherein the radio program schedule information is retrieved by a wireless method.

20 26. The system of claim 25, wherein the radio program schedule information is contained in a cellular transmission received by the mobile device.

27. The system of claim 23, wherein the elements of the program guide are irregularly shaped.

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28. The system of claim 23, wherein the program guide is displayed on the display screen in response to a user activating a specifically- designated button on the mobile device.

5 29. The system of claim 23, wherein at least one element of the program guide corresponds to a radio program to be broadcast in the future.

30. The system of claim 29, further comprising:  
a user selection component configured to receive a user selection of an  
10 element corresponding to a radio program to be broadcast in the future;  
a scheduling component configured to schedule a task to receive the selected radio program at a time indicated by the program guide;  
a radio program reception component configured to receive the selected radio program; and  
15 a caching component configured to cache the selected radio program in response to the selected radio program being received.

31. The system of claim 30, wherein the caching component is further configured to cache the selected radio program in a location selected from the  
20 group consisting of the mobile device, a communication network, and a wireless transmission apparatus connected to the communication network.

32. The system of claim 30, wherein the formatting component is further configured to visually indicate within the program guide that a task has  
25 been scheduled for receiving the selected radio program.

33. The system of claim 30, further comprising:

a playback component configured to play the cached radio program using the mobile device in response to a user command.

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34. The system of claim 23, wherein at least one element corresponds

to a radio program broadcast at an earlier time.

35. The system of claim 34, further comprising:

10 a radio program reception component configured to selectively receive a plurality of radio programs; and

a caching component configured to cache the received radio programs.

36. The system of claim 35, wherein the caching component is further

15 configured to cache the selected radio program in a location selected from the group consisting of the mobile device, a communication network, and a wireless transmission apparatus connected to the communication network.

37. The system of claim 35, wherein the plurality of radio programs are

20 selectively received in response to specified user preferences.

38. The system of claim 35, wherein the plurality of radio programs are

selectively received in response to historical user selections.

39. The system of claim 35, wherein the plurality of radio programs comprise all of the programming broadcast by a particular radio station for a period of time.

5        40. The system of claim 35, further comprising:  
a user selection component configured to receive a user selection of an element corresponding to a previously-broadcast and cached radio program; and  
a playback component configured to play the cached radio program using the mobile device.

10        41. The system of claim 23, wherein at least one element corresponds to a radio program being currently broadcast over the Internet.

15        42. The system of claim 41, further comprising:  
a user selection component configured to receive a user selection of an element corresponding to a radio program being currently broadcast;  
a radio program reception component configured to receive the radio program via the Internet; and  
a playback component configured to play the radio program using the  
20    mobile device.

43. The system of claim 23, wherein at least one element corresponds to a radio program being currently broadcast in a wireless analog transmission.

25        44. The system of claim 43, further comprising:



a user selection component configured to receive a user selection of an element corresponding to a radio program being currently broadcast;

a radio program reception component configured to receive the radio program via an analog wireless receiver of the mobile device; and

5 a playback component configured to play the radio program using the mobile device.

45. A mobile device comprising:

a wireless digital receiver configured to receive radio program schedule  
10 information;

a formatting component configured to format the radio program schedule information into a program guide comprising first and second axes and a plurality of elements, the first axis corresponding to a plurality of radio stations, the second axis corresponding to a plurality of time slots, each element  
15 corresponding to a radio program;

a display screen; and

a display component configured to display the program guide on the integrated display screen.

20 46. The mobile device of claim 45, further comprising a wireless digital transmitter configured to transmit a request for the radio program schedule information.

47. The mobile device of claim 45, further comprising a storage device  
25 configured to cache radio programs for future playback.

48 The mobile device of claim 45, further comprising an audio controller configured to convert a radio program into a format that can be played on the mobile device.

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49 The mobile device of claim 48, wherein the audio controller is configured to provide a signal usable by an audio playback component to a component selected from the group consisting of a speaker, a headphone jack, and a line-out jack.

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50. The mobile device of claim 45, further comprising a wireless analog receiver configured to receive a wireless analog transmission.

51. The mobile device of claim 50, further comprising an analog-to-digital converter configured to convert an analog signal from the wireless analog receiver into a digital signal.

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52. The mobile device of claim 45, further comprising a specifically designated button configured to activate display of the program guide.

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53. The mobile device of claim 45, further comprising user controls configured to enable operation of the mobile device as a car stereo.

54. The mobile device of claim 45, further comprising user controls configured to enable operation of the mobile device as a personal stereo.

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55. The mobile device of claim 45, further comprising user controls configured to enable operation of the mobile device as a personal desktop assistant.

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56. The mobile device of claim 45, further comprising user controls configured to enable operation of the mobile device as a cellular phone.

57. The mobile device of claim 45, further comprising user controls configured to enable operation of the mobile device as a laptop computer.

58. The mobile device of claim 45, further comprising user controls configured to enable operation of the mobile device as a webpad.

59. A method for delivering radio programs and related schedule information using a mobile device, the method comprising:

- retrieving schedule information pertaining to radio programs;
- formatting the schedule information into a program guide comprising first and second axes and a plurality of elements, the first axis corresponding to a plurality of radio stations, the second axis corresponding to at least one time slot, each element corresponding to a radio program; and
- displaying the program guide on a screen integrated with the mobile device.

60. A method for delivering radio programs and related schedule information using a mobile device, the method comprising:

retrieving schedule information pertaining to radio programs;

formatting the schedule information into a program guide comprising first  
5 and second axes and a plurality of elements, the first axis corresponding at least one radio station, the second axis corresponding to a plurality of time slots, each element corresponding to a radio program; and

displaying the program guide on a screen integrated with the mobile device.

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61. A computer program product comprising compute-readable code for performing a method for delivering radio programs and related schedule information using a mobile device, the method comprising:

retrieving schedule information pertaining to radio programs;

15 formatting the schedule information into a program guide comprising first and second axes and a plurality of elements, the first axis corresponding to a plurality of radio stations, the second axis corresponding to a plurality of time slots, each element corresponding to a radio program; and

displaying the program guide on a screen integrated with the mobile  
20 device.